



**Get Ready for WellSTAR!**  
STAR = **S**tatewide **T**racking and **R**eporting

*By Ken Harris, State Oil and Gas Supervisor, Division of Oil, Gas & Geothermal Resources (DOGGR)*

Greetings from WellSTAR!

Amazing how quickly time flies by! It's already March and our four-week Proof of Concept period was successfully completed on February 24, 2016. I am so pleased with the active participation that the WellSTAR Team witnessed in Bakersfield and I would like to thank our Super User Leads, Single Points of Contact (SPOCs), and Super Users for making the Proof of Concept a success.

Some of the feedback we received indicated that the Proof of Concept was so limited in scope that it was difficult to ascertain the full functional breadth that WellSTAR will offer the Division. The Division opted to do a Proof of Concept versus a Pilot due to time constraints and resource availability. A Proof of Concept, by definition, "...is a demonstration, the purpose of which is to verify that certain concepts...have the potential for real-world application. POC is therefore a prototype that is designed to determine feasibility, but does not represent deliverables."



In addition to the demonstration of Forms 100, 105, and WST in WellSTAR, the Division also collected information on and evaluated other aspects of WellSTAR to confirm its viability for our Division. Please reference page 5 of this newsletter to view a list of all the categories we used to evaluate WellSTAR.

We are 96% complete with our evaluation and are actively working on finalizing the fit/gap analysis to determine to what degree WellSTAR can meet the specific needs of the Division. Once this is complete, the Division will be holding a formal Go/No Go meeting with Division and DOC Leadership as well as our California Department of Technology partners to proceed into implementation of WellSTAR statewide in the near future. This meeting is currently tentatively scheduled for the beginning of April 2016 and as soon as we have the results, I will announce the Go/No Go decision and publish the Proof of Concept results.

Again, thank you for the hard work, participation, and commitment to the WellSTAR Project. I am confident I will soon be writing to all of you about our plans to go forward with the full implementation of WellSTAR.

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## Proof of Concept (PoC) Extended User Training, 3/2/16

*By Jeff Newton and Kris Lea*

Twelve participants, from all districts and HQ, convened in Bakersfield for an all-day session that covered the three eForms that were included in the PoC Training: 105, 100, and Well Stimulation (WST). This training was the same training content offered to the Bakersfield Evaluators and the All-Super User sessions.

This group of participants asked great questions, which will contribute to a formal FAQ document.

At the end of the session, there was a debrief session, which was important. The participants at the debrief session gave valuable feedback and expressly asked that the future WellSTAR system take into consideration the functionality within CalWIMS that works well and that they like!

The response was, “Yes, that is happening (for WellSTAT and CalWIMs), specifically with requirements gathering and the development of As Is Business Process documentation.” However, the feedback about CalWIMS is very important as both WellSTAT and CalWIMS are critical legacy systems that have supported DOGGR for many years. A lot of hardworking folks contributed to both of those systems and they are appreciated.



*PoC Training Participants & Instructors, Bakersfield, 3/2/16*

## In the Field – Business Process and In-the-Districts

*By Kelly Elo*

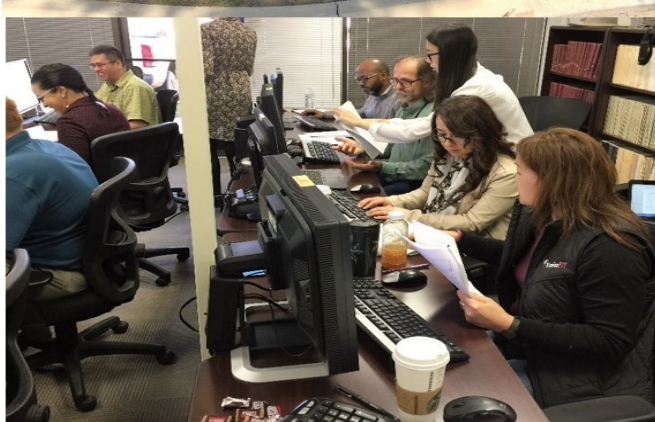
February and early March saw a lot of activity in Bakersfield. The SPOC/Super User and the Extended User Proof of Concept training sessions were held in the new training room at the Inland District office. These two sessions gave staff from all the Districts insight into what will become the new WellSTAR system. Both sessions were well attended and gave the Project staff excellent opportunities to hear from district staff who will be impacted by the new system. Special thanks to the Inland District for hosting these two events and an extra thank you to everyone who traveled to Bakersfield to participate!

As previously noted in this newsletter, the OCM Team continues to build out the baseline As Is Business Processes impacted by the WellSTAR implementation. Once the baseline models are complete, team members will begin visiting each district to create district specific versions of each of the processes. These visits are anticipated to occur later this month and through the month of April. Kelly Elo will coordinate dates for these visits with each of the district SPOCs in order ensure business subject matter expert availability.

In order to successfully prepare for WellSTAR, we must fully understand the change that will occur. This As Is process effort—understanding and documenting what is being done today—is critical to understanding the changes for district staff and preparing for the improved tomorrow! We thank all of you for your continued support. On the following page, please enjoy a collage of pictures from our district activities.



# Fun in the Field!





# Data Management

## **SB-1281 Data Requirements**

*By Jeff Newton and Tim Cleary*

The SB-1281 Data Management and Reporting is about quarterly Water Use Reporting from Oil and Gas Production. The Division has been working closely with operators to provide data on all water produced, injected, and used within oil fields.

The Division has created a staging database to be used to process operator data and produce summary reports and data tables. Data mapping between WellSTAR and the SB-1281 staging database repository will continue to be used for quarterly reporting until we can eventually convert and migrate the data into WellSTAR at the appropriate time. The 'appropriate time' will be determined by the WellSTAR release plan, which is not yet fully developed and will be available later this month.

The first, second, and third quarter 2015 water summary reports and data tables are now available. Other related resources are also available online. Please use the link below to access the reports and data tables.

[Water Use SB 1281 Data and Reports](#)

## **PbP/EPA Data Requirements**

*By Rob Habel and Tim Cleary*

The Class II Underground Injection Control (UIC) Program/EPA Compliance Team continues to work with operators to gather data and translate Department of Conservation's, Division of Oil, Gas & Geothermal Resources (DOGGR) program requirements. The data gathered will also be collected in a staging database to be used for Project by Project Reviews and to meet Environmental Protection Agency (EPA) requirements.

To start, we have been working with the largest operators, including Chevron, California Resources Corporation (CRC), AERA Energy, Freeport-McMoRan, and Linn Energy, as well as McPherson Oil. This data collection activity will also act as a bridge between current compliance requirements and the new WellSTAR system.

## **Geologic Modeling System Evaluation**

*By David Slayter*

The Division is in the process of selecting a geologic modeling system (GMS) to better enable the Division to manage, assess, and visualize oil, gas, and geothermal resources. Along with the mission of the WellSTAR well management system (WMS), the GMS will be the geologic analysis and assessment component to modernize the Division's data management capabilities.

More than just 3D GIS, the Division is looking for software that will provide a broad spectrum of petroleum, geological, and engineering capabilities. Models of subsurface geology, reservoirs and pools, spatial analysis of geologic data, import, and review of directional wells in 3D and their construction details, field activity such as well stimulation and underground injection and reservoir conditions can all be modeled with these software.

The GMS will utilize data contained within the SQL Server-based WellSTAR databases to eliminate the potential for duplicate data. We envision that the GMS software will be deployed across the Division's district offices so that the expertise of the district engineers can be fully utilized and integrated throughout the database and model development lifecycle.

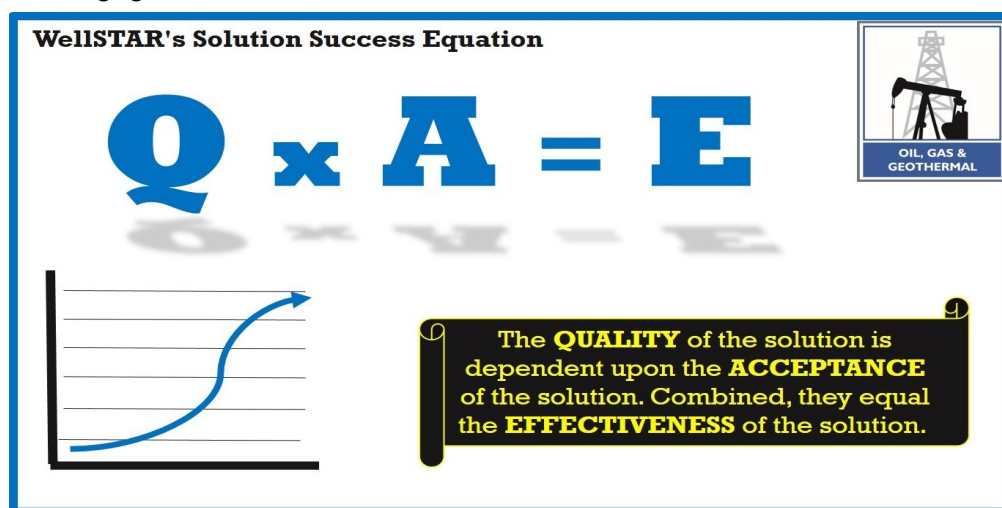
With the assistance of ETSD, we have identified four software platforms that best fit the Division's needs and desired capabilities. In the first week of March, the Division received presentations from the four software developers that have been selected from an initial pool of 11 systems. Presenters discussed how their systems will meet the Division's regulatory goals. To aid in the selection process, feedback from those viewing the presentations is being collected and will be used to help assess the best fit for the Division. Evaluations of each software platform will also be conducted during the rest of the month and likely going into April.

Any questions regarding this effort can be sent to [WellSTAR@conservation.ca.gov](mailto:WellSTAR@conservation.ca.gov).

# OCM Activities: A memorable equation: $Q \times A = E$

By Jeff Newton

As we move closer to a decision on whether or not the Division will fully implement RBDMS as our well management system, it will be important that we stay focused on the work at hand. Not just in getting the job done, but also thinking about how we might improve the way we do business going forward. Having each of you engaged in this process will increase the likelihood of success as we move through this transformation. No matter how good a solution is presented to us, without our own acceptance and engagement, there will be no success.



## Evaluating WellSTAR

By Ken Harris

As indicated in "Greetings from WellSTAR!" on page 1, the Division collected information on WellSTAR to evaluate and confirm its viability for our Division. Below is a list of the categories we used to evaluate WellSTAR:

- **Usability:** Is WellSTAR easily understood? Well structured? Easy to use?
- **Accessibility:** Is WellSTAR ADA compliant? What browsers are required?
- **Portability:** Does the product support mobility? Can WellSTAR work off-line if a user is in the field and out of connectivity range?
- **Supportability:** How is WellSTAR support accessed? Is the support reliable? Is support timely?
- **Performance & Reliability:** Is WellSTAR slow? Does WellSTAR hang? Can WellSTAR be counted on to be available?
- **Training & Documentation:** Did the training prepare users to use WellSTAR? Was the training documentation clear and meaningful?
- **Scalability:** How many users can WellSTAR support? How much can WellSTAR expand to support additional users?
- **Interoperability:** Can WellSTAR support interoperability / integration with other third party products that are not built on the same platform as WellSTAR?
- **PoC Specific:** Can WellSTAR accommodate State of California-specific requirements?

## Brain Teaser – A fun quiz!

Be the first DOGGR staff member to answer this question correctly and win a \$5 Starbucks gift card (and be recognized in the next newsletter)!

**Can you name the Minerals in Bowen's Reaction Series (Geology Rocks)?**

Send your answer to [WellSTAR@conservation.ca.gov](mailto:WellSTAR@conservation.ca.gov)



*Congratulate February's Brain Teaser Winner:*

**Suman Ghosh!**

*February's question was, "Can you name the three most abundant elements in the Earth's crust?"*

*Answer: Oxygen, Silicon, and Aluminum*

**Note:** *A lot of you answered correctly (and wittily), but Suman was the first!*

## Contact Us (WellSTAR OCM Team)

Visit us on the web (DOGGR/WellSTAR Intranet Page) at [http://docinsider/DOGGR/Pages/WellSTAR\\_Project.aspx](http://docinsider/DOGGR/Pages/WellSTAR_Project.aspx)

or (DOGGR/Operator Internet Page) at [http://www.conservation.ca.gov/dog/for\\_operators](http://www.conservation.ca.gov/dog/for_operators)

Please send your comments and questions to [WellSTAR@conservation.ca.gov](mailto:WellSTAR@conservation.ca.gov). We want to hear from you!

The following are two corrections from the February newsletter:

1. The acronym WellSTAR stands for Well Statewide Tracking and Reporting
2. In the Data Management section, it said,

"As an example, let's use a fictional US Well Number 040290000001. Alphabetically, California is the fourth state (state code 04) and each county in California is similarly assigned a consecutive number based on alphabetical order. In this case, Kern County is the 29th county." However it should have said, "In this case, Kern County is county 29."

*We apologize for any inconvenience this may have caused*